

PMP23598 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
PCB1	1		PMP23598	Any	Printed Circuit Board	
C1, C2, C3, C4, C10	5	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	0603
C5	1	1000pF	GRM188R71E102KA01D	MuRata	CAP, CERM, 1000 pF, 25 V, +/- 10%, X7R, 0603	0603
C6	1	0.47uF	GCM188R71C474KA55D	MuRata	CAP, CERM, 0.47 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C7, C8	2	2.2uF	GRM188Z71C225KE43	MuRata	CAP, CERM, 2.2 uF, 16 V, +/- 10%, X7R, 0603	0603
C9	1	6800pF	GRM188R71E682KA01D	MuRata	CAP, CERM, 6800 pF, 25 V, +/- 10%, X7R, 0603	0603
C11	1	220pF	GRM188R71H221KA01D	MuRata	CAP, CERM, 220 pF, 50 V, +/- 10%, X7R, 0603	0603
C12, C13, C14, C16, C18	5	10uF	GCM32EL8EH106KA07L	MuRata	CAP, CERM, 10 uF, 50 V, +/- 10%, X8L, AEC-Q200 Grade 0, 1210	1210
C15	1	10pF	GCM1885C2A100JA16D	MuRata	CAP, CERM, 10 pF, 100 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0603	0603
C17	1	0.1uF	GRM21BR71H104KA01L	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0805	0805
C19	1	2200pF	GRM188R71H222KA01D	MuRata	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603	0603
C20, C22, C24, C26	4	0.22uF	GRM216R71A224KC01D	MuRata	CAP, CERM, 0.22 uF, 10 V, +/- 10%, X7R, 0805	0805
C21, C23, C25, C27, C29	5	220pF	GRM155R71H221KA01D	MuRata	CAP, CERM, 220 pF, 50 V, +/- 10%, X7R, 0402	0402
C28, C30, C32, C34	4	4.7uF	C1210C475K8RACTU	Kemet	CAP, CERM, 4.7 uF, 10 V, +/- 10%, X7R, 1210	1210
C31, C33	2	100uF	T495U107K010ZTE150	Kemet	CAP, TA, 100 uF, 10 V, +/- 10%, 0.15 ohm, SMD	6032-15
D1, D2	2	100V	SS110-TP	Micro Commercial Component	Diode, Schottky, 100 V, 1 A, SMA	SMA
D3	1		BAT46GWJ	Nexperia	Diode Schottky 100V 250mA (DC) Surface Mount SOD-123	SOD-123
J1	1		61300611121	Würth Elektronik	Header, 2.54 mm, 6x1, Gold, TH	Header, 2.54mm, 6x1, TH
J2, J5	2		61300311121	Würth Elektronik	Header, 2.54 mm, 3x1, Gold, TH	Header, 2.54mm, 3x1, TH
J3	1		61300211121	Würth Elektronik	Header, 2.54 mm, 2x1, Gold, TH	Header, 2.54mm, 2x1, TH
J4, J6	2		ED120/2DS	On-Shore Technology	Terminal Block, 5.08 mm, 2x1, Brass, TH	2x1 5.08 mm Terminal Block
L1	1	2.2uH	XGL1060-222MEC	Coilcraft	2.2 uH Shielded Molded Inductor 25.3 A 4.3mOhm Max Nonstandard	SMD2
Q1	1		EPC2022	EPC	MOSFET N-Channel 100 V 90A (Ta) Surface Mount Die	LGA30
Q2, Q3	2	40V	EPC2024	EPC	MOSFET, N-CH, 40 V, 90 A, 6.05x2.3mm	6.05x2.3mm
R1, R3, R9, R17, R22, R24, R28	7	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R2	1	3.16k	CRCW06033K16FKEA	Vishay-Dale	RES, 3.16 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R4, R10	2	59.0k	CRCW060359K0FKEA	Vishay-Dale	RES, 59.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R5, R6, R7	3	1	CRCW06031R00FKEA	Vishay-Dale	RES, 1.00, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R8	1	10.0k	RG1608P-103-B-T5	Susumu Co Ltd	RES, 10.0 k, 0.1%, 0.1 W, 0603	0603
R11	1	499k	CRCW0603499KFKEA	Vishay-Dale	RES, 499 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R12	1	432k	CRCW0603432KFKEA	Vishay-Dale	RES, 432 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R13	1	249k	CRCW0603249KFKEA	Vishay-Dale	RES, 249 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R14	1	8.66k	CRCW06038K66FKEA	Vishay-Dale	RES, 8.66 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R15, R16	2	1.8	CRCW06031R80FKEA	Vishay-Dale	RES, 1.80, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R18	1	1.43k	CRCW06031K43FKEA	Vishay-Dale	RES, 1.43 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R19	1	1.37k	CRCW06031K37FKEA	Vishay-Dale	RES, 1.37 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603

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R20, R21, R26, R27	4	2.87	CRCW06032R87FKEA	Vishay-Dale	RES, 2.87, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R25	1	10	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R29	1	10	CRCW121810R0FKEK	Vishay-Dale	RES, 10.0, 1%, 1 W, AEC-Q200 Grade 0, 1218	1218
R30	1	2.21	CRCW08052R21FKEA	Vishay-Dale	RES, 2.21, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
T1	1		ZG3406-AL	Coilcraft	TRANSFORMER	SMT_XFRMR_23MM 37 20MM83
T2	1		PA1005.050NL	Pulse Engineering	SMT Current Sense Tranformer	P82xx
TP1, TP3	2		5010	Keystone Electronics	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
TP2, TP4	2		5011	Keystone Electronics	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
U1	1		TPS7H6005/EM	Texas Instruments	TPS7H6005/EM	TSSOP56
U2	1		TPS7H5021MPWPTSEP	Texas Instruments	Radiation-Hardness-Assured 1-MHz Current Mode PWM Controller with Integrated Gate Driver	HTSSOP24
H1, H2, H3, H4	0		4820	Keystone		1 inch Nylon Hex Standoff
R23	0	0.1	ERJ14RSJR10U	Panasonic	RES, 0.1, 5%, 0.25 W, AEC-Q200 Grade 0, 1210	1210

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